

**Flood Control Project Maintenance
Levee Inspections**

Fall 2010 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin

RD0544	Overall LMA Rating	Total LMA Miles				
Reclamation District No. 0544 Upper Roberts Island	U	10.33				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Vegetation	9.52	0.39	11.08	107.26%		
Trim / Thin Trees	0.03		0.03	0.29%		
Encroachments	0.27		0.27	2.61%	0.11	0.01
Animal Control	0.23		0.23	2.23%		
Slope Stability	0.03	0.01	0.07	0.68%		
Erosion / Bank Caving	0.01		0.01	0.10%		
Crown Surface / Depressions / Rutting	0.34		0.34	3.29%		
<i>Interior Drainage & Piping Systems</i>						
Erosion Areas		0.01	0.04	0.39%		
<i>Supplemental</i>						
DWR Erosion Survey		0.04	0.16	1.55%		
<i>LMA Totals:</i>	10.43	0.45	12.23	118.39%	0.11	0.01
Unit No. 01 San Joaquin River	Overall Unit Rating	Total Unit Miles				
	U	6.11				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Vegetation	4.00	0.37	5.48	89.69%		
Trim / Thin Trees	0.02		0.02	0.33%		
Encroachments	0.21		0.21	3.44%	0.05	0.01
Animal Control	0.11		0.11	1.80%		
Slope Stability	0.03	0.01	0.07	1.15%		
Erosion / Bank Caving	0.01		0.01	0.16%		
<i>Supplemental</i>						
DWR Erosion Survey		0.04	0.16	2.62%		
<i>Unit Totals:</i>	4.38	0.42	6.06	99.18%	0.05	0.01
Unit No. 02 Old River	Overall Unit Rating	Total Unit Miles				
	U	4.22				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Vegetation	5.52	0.02	5.60	132.70%		
Trim / Thin Trees	0.01		0.01	0.24%		
Encroachments	0.06		0.06	1.42%	0.06	
Animal Control	0.12		0.12	2.84%		
Crown Surface / Depressions / Rutting	0.34		0.34	8.06%		
<i>Interior Drainage & Piping Systems</i>						
Erosion Areas		0.01	0.04	0.95%		
<i>Unit Totals:</i>	6.05	0.03	6.17	146.21%	0.06	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2010 Levee Inspection Results

Reclamation District No. 0544 Upper Roberts Island

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			U	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2010 Levee Inspection Results

Reclamation District No. 0544 Upper Roberts Island

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Left	6.11
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	3/16/2010		9/21/2010	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

Comments

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports
3310 El Camino Avenue, Suite 200
Sacramento, CA 95821-9000

X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0544 Upper Roberts Island

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River				Left	6.11	09/29/2010 09/29/2010	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.05	0.18	Earthen Levee	Encroachments	LS	M	Equipment Inspector Comments: Farm equipment and supplies stored at landside toe.	37.869605 ° -121.329573 °	37.868180 ° -121.328160 °	4
2	0.26	0.26	Earthen Levee	Encroachments	LS	C	Prunings	37.867130 ° -121.327813 °	37.867130 ° -121.327813 °	6
3	0.41	0.45	Supplemental	DWR Erosion Survey	WS	U	Inspector Comments: 09/07/2010: No significant changes observed on site. There are minor pockets of erosion lining the lower slope and undermining of the toe. There are annual grasses and emergent vegetation at the lower slope. Burrow holes were observed along the slope and persist throughout the 200-foot long site. 08/05/2010: Recommended for annual assessment and monitoring during flood events, per CLRO. [2010 SiteID: RD0544U01RM47.12]	37.864820 ° -121.327200 °	37.864820 ° -121.327200 °	1 Y
4	0.41	0.41	Earthen Levee	Trim / Thin Trees	LS	M	Thin trees to allow visibility of the ground and room to flood fight.	37.864958 ° -121.327142 °	37.864958 ° -121.327142 °	2
5	0.42	0.42	Earthen Levee	Encroachments	LS	C	Tree or limb	37.865033 ° -121.327260 °	37.865033 ° -121.327260 °	8
6	0.48	0.49	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	37.864643 ° -121.326363 °	37.864592 ° -121.326165 °	5
7	0.48	0.68	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	37.864578 ° -121.326210 °	37.863753 ° -121.322835 °	3
8	0.57	0.57	Earthen Levee	Slope Stability	WS	M	Repair slope instability.	37.864357 ° -121.324860 °	37.864357 ° -121.324860 °	7 Y
9	0.65	0.70	Earthen Levee	Encroachments	LS	PO	Landscaping	37.863935 ° -121.323341 °	37.863599 ° -121.322442 °	9
10	0.71	0.71	Earthen Levee	Encroachments	WS	CO	Landscaping	37.863575 ° -121.322367 °	37.863575 ° -121.322367 °	10
11	0.74	0.74	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees over roadway to at least 12 feet above ground level.	37.863380 ° -121.321897 °	37.863380 ° -121.321897 °	12
12	1.14	1.76	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.859287 ° -121.318333 °	37.854252 ° -121.324092 °	15
13	1.33	1.44	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	37.857042 ° -121.320480 °	37.855792 ° -121.321212 °	19
14	1.44	1.44	Earthen Levee	Trim / Thin Trees	LS	N	Tree stumps.	37.855778 ° -121.321206 °	37.855778 ° -121.321206 °	13
15	1.45	1.45	Earthen Levee	Trim / Thin Trees	WS	N	Tree stumps.	37.855583 ° -121.321177 °	37.855583 ° -121.321177 °	14
16	1.58	1.69	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	37.854108 ° -121.321582 °	37.854837 ° -121.323280 °	43

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0544 Upper Roberts Island

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River							Left	6.11	09/29/2010 09/29/2010	Richard Willoughby
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
17	1.78	1.80	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.853934 ° -121.324219 °	37.853617 ° -121.324253 °	16
18	1.80	1.80	Earthen Levee	Encroachments	LS	M	Prunings	37.853445 ° -121.324227 °	37.853445 ° -121.324227 °	20
19	1.86	1.86	Earthen Levee	Encroachments	LS	M	Prunings	37.852771 ° -121.324014 °	37.852771 ° -121.324014 °	21
20	1.95	2.28	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.851615 ° -121.323210 °	37.848105 ° -121.324857 °	44
21	2.31	2.38	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	37.847686 ° -121.324780 °	37.846743 ° -121.324336 °	34
22	2.46	2.46	Earthen Levee	Encroachments	CR	M	Pipe Inspector Comments: Abandoned should be removed	37.845850 ° -121.323230 °	37.845850 ° -121.323230 °	46
23	2.86	2.86	Earthen Levee	Trim / Thin Trees	LS	N	Tree stumps.	37.841075 ° -121.320205 °	37.841075 ° -121.320205 °	22
24	2.98	3.21	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.840485 ° -121.318390 °	37.837225 ° -121.317408 °	47
25	3.25	3.87	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	37.836763 ° -121.317307 °	37.829195 ° -121.311918 °	49
26	3.25	3.31	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.836760 ° -121.317308 °	37.835952 ° -121.317057 °	48
27	3.31	3.31	Earthen Levee	Encroachments	WS	M	Ramp Inspector Comments: Landowner has cut new ramp on waterside slope.	37.835951 ° -121.317062 °	37.835951 ° -121.317062 °	37
28	3.32	3.32	Earthen Levee	Slope Stability	WS	M	Repair slope instability.	37.835815 ° -121.316997 °	37.835815 ° -121.316997 °	50
29	3.52	4.72	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.833432 ° -121.314792 °	37.821853 ° -121.319992 °	51
30	3.55	3.55	Earthen Levee	Encroachments	WS	M	Garbage Inspector Comments: Old dish washers	37.833188 ° -121.314487 °	37.833188 ° -121.314487 °	23 Y
31	3.95	3.95	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	37.828120 ° -121.311504 °	37.828120 ° -121.311504 °	24
32	4.06	4.09	Earthen Levee	Animal Control	WS	M	Exterminate rodents and backfill and compact or grout burrows.	37.826621 ° -121.310820 °	37.826315 ° -121.311024 °	11
33	4.18	4.32	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	37.825762 ° -121.312393 °	37.825005 ° -121.314982 °	52
34	4.32	4.32	Earthen Levee	Slope Stability	WS	U	Repair slope instability. Inspector Comments: Ten inch pipe possible broken pipe.	37.824995 ° -121.314983 °	37.824995 ° -121.314983 °	53 Y

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0544 Upper Roberts Island

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River							Left	6.11	09/29/2010 09/29/2010	Richard Willoughby
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
35	4.32	4.32	Earthen Levee	Encroachments	LS	M	Garbage Inspector Comments: Old concrete pipes on landside toe should be removed.	37.825151 ° -121.314826 °	37.825151 ° -121.314826 °	25
36	4.44	4.72	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	37.823617 ° -121.315550 °	37.821855 ° -121.319995 °	54
37	4.53	4.53	Earthen Levee	Vegetation	LS	U	Elderberries are blocking visibility and flood fight capability.	37.822934 ° -121.316870 °	37.822934 ° -121.316870 °	41 Y
38	4.70	4.70	Earthen Levee	Encroachments	LS	M	Garbage	37.821901 ° -121.319683 °	37.821901 ° -121.319683 °	27
39	4.75	4.75	Earthen Levee	Animal Control	CR	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.821626 ° -121.320471 °	37.821626 ° -121.320471 °	29
40	4.75	4.75	Earthen Levee	Slope Stability	LS	M	Repair slope instability.	37.821626 ° -121.320471 °	37.821626 ° -121.320471 °	28
41	4.75	4.78	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.821592 ° -121.320617 °	37.821253 ° -121.320927 °	26
42	4.86	4.86	Earthen Levee	Encroachments	LS	M	Prunings Inspector Comments: Remove dead stumps at landside toe and prunings on landside slope.	37.820227 ° -121.321115 °	37.820227 ° -121.321115 °	30
43	4.86	4.86	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.820081 ° -121.321043 °	37.820081 ° -121.321043 °	31
44	4.94	4.94	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.819249 ° -121.320460 °	37.819249 ° -121.320460 °	32
45	5.00	5.30	Earthen Levee	Vegetation	LS	U	Remove the wild growth other than native grasses from the levee slopes.	37.818718 ° -121.319508 °	37.814662 ° -121.320302 °	33 Y
46	5.05	5.05	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	37.818152 ° -121.319095 °	37.818152 ° -121.319095 °	17
47	5.39	5.39	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	37.813659 ° -121.319614 °	37.813659 ° -121.319614 °	35
48	5.39	5.39	Earthen Levee	Encroachments	WS	C	Prunings	37.813616 ° -121.319531 °	37.813616 ° -121.319531 °	36
49	5.48	5.48	Earthen Levee	Encroachments	LS	C	Prunings	37.812523 ° -121.318960 °	37.812523 ° -121.318960 °	38
50	5.54	5.60	Earthen Levee	Vegetation	LS	U	Elderberries are blocking visibility and flood fight capability.	37.812033 ° -121.319737 °	37.811687 ° -121.320677 °	18 Y
51	5.69	5.69	Earthen Levee	Trim / Thin Trees	LS	N	Tree stumps.	37.811199 ° -121.322176 °	37.811199 ° -121.322176 °	40
52	5.88	5.88	Earthen Levee	Encroachments	WS	C	Prunings	37.810959 ° -121.325504 °	37.810959 ° -121.325504 °	42

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	09/29/2010 09/29/2010	Richard Willoughby

Levee Mile Report Line	3
Start Levee Mile	0.41
End Levee Mile	0.45
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Upstream view of site where a 4-foot vertical scarp has occurred.

SJR2010_RM47.12U1LM0.43LBa.jpg



Levee Mile Report Line	3
Start Levee Mile	0.41
End Levee Mile	0.45
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Upstream view of site where undermining of the slope has occurred.

SJR2010_RM47.12U1LM0.43LBb.jpg



Levee Mile Report Line	3
Start Levee Mile	0.41
End Levee Mile	0.45
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of site.

SJR2010_RM47.12U1LM0.43LBc.jpg



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Reclamation District No. 0544 Upper Roberts Island

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Unit No. 01 San Joaquin River	Left	6.11	09/29/2010 09/29/2010	Richard Willoughby

Levee Mile Report Line	3
Start Levee Mile	0.41
End Levee Mile	0.45
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Close-up view of a 4-foot long vertical scarp. This photo was taken on 09/30/2009.

SJR2010_RM47.12U1LM0.43LBd.jpg



Levee Mile Report Line	8
Start Levee Mile	0.57
End Levee Mile	0.57
Location	Water Side
Category	Earthen Levee
Item	Slope Stability

Erosion around siphon pipe at LM 0.57

richard_f_20100921_146.jpg



Levee Mile Report Line	30
Start Levee Mile	3.55
End Levee Mile	3.55
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking south at equipment stored on landside shoulder.

richard_f_20100921_147.jpg



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Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	09/29/2010 09/29/2010	Richard Willoughby

Levee Mile Report Line	34
Start Levee Mile	4.32
End Levee Mile	4.32
Location	Water Side
Category	Earthen Levee
Item	Slope Stability

Looking east at erosion on waterside slope and berm cause by leaking 10" pipe.

richard_f_20101123_329.jpg



Levee Mile Report Line	34
Start Levee Mile	4.32
End Levee Mile	4.32
Location	Water Side
Category	Earthen Levee
Item	Slope Stability

Looking west at hole on waterside shoulder and slope cause by possible broken pipe.

richard_f_20101123_330.jpg



Levee Mile Report Line	34
Start Levee Mile	4.32
End Levee Mile	4.32
Location	Water Side
Category	Earthen Levee
Item	Slope Stability

Looking northwest at pump and platform for 10" possible leaking pipe.

richard_f_20101123_331.jpg



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**Flood Control Project Maintenance
Levee Inspections**

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	09/29/2010 09/29/2010	Richard Willoughby

Levee Mile Report Line	34
Start Levee Mile	4.32
End Levee Mile	4.32
Location	Water Side
Category	Earthen Levee
Item	Slope Stability

Looking west at erosion on slope and berm cause by possible broken 10" pipe.

richard_f_20101130_469.jpg



Levee Mile Report Line	34
Start Levee Mile	4.32
End Levee Mile	4.32
Location	Water Side
Category	Earthen Levee
Item	Slope Stability

Looking east at erosion on waterside slope cause by possilbe broken pipe.

richard_f_20101130_470.jpg



Levee Mile Report Line	34
Start Levee Mile	4.32
End Levee Mile	4.32
Location	Water Side
Category	Earthen Levee
Item	Slope Stability

Looking east at 10" pipe platform.

richard_f_20101130_471.jpg



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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	09/29/2010 09/29/2010	Richard Willoughby

Levee Mile Report Line	37
Start Levee Mile	4.53
End Levee Mile	4.53
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking south at elderberries on landside slope and toe.

richard_f_20100921_149.jpg



Levee Mile Report Line	45
Start Levee Mile	5.00
End Levee Mile	5.30
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking southeast at dense veg. on landside slope and toe.

richard_f_20100921_148.jpg



Levee Mile Report Line	50
Start Levee Mile	5.54
End Levee Mile	5.60
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking southwest on elderberries on landside slope and toe.

richard_f_20101001_327.jpg



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Levee Mile Report Line	50
Start Levee Mile	5.54
End Levee Mile	5.60
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking south at elderberries on landside slope and toe.

richard_f_20101001_328.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable PO : Partially Obstructing C : Corrected
M : Minimally Acceptable CO : Completely Obstructing W : Watch/Monitor
U : Unacceptable N : Not Inspected/Rated

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2010 Levee Inspection Results

Reclamation District No. 0544 Upper Roberts Island

Waterway			Bank	Unit Miles
Unit No. 02 Old River			Right	4.22

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	3/16/2010		9/21/2010	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By	Jerry Robinson		Jerry Robinson	

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

Comments

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports
3310 El Camino Avenue, Suite 200
Sacramento, CA 95821-9000

X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0544 Upper Roberts Island

Waterway						Bank	Unit Miles	Inspection Start/End		Inspector
Unit No. 02 Old River						Right	4.22	09/29/2010 09/29/2010		Richard Willoughby
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.32	0.37	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.808972 ° -121.333720 °	37.809442 ° -121.334415 °	3
2	0.39	0.39	Earthen Levee	Trim / Thin Trees	WS	C	Trim trees to at least five feet above ground level.	37.809591 ° -121.334597 °	37.809591 ° -121.334597 °	23
3	0.41	0.41	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	37.809788 ° -121.334727 °	37.809788 ° -121.334727 °	4 Y
4	0.43	1.13	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.810250 ° -121.334933 °	37.819452 ° -121.333755 °	1
5	0.43	1.50	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	37.810253 ° -121.334930 °	37.822285 ° -121.339252 °	2
6	0.52	0.52	Earthen Levee	Trim / Thin Trees	LS	N	Tree stumps.	37.811592 ° -121.335018 °	37.811592 ° -121.335018 °	11
7	0.54	0.54	Earthen Levee	Encroachments	LS	C	Prunings	37.811815 ° -121.335043 °	37.811815 ° -121.335043 °	12
8	0.74	0.74	Earthen Levee	Vegetation	LS	U	Elderberries are blocking visibility and flood fight capability.	37.814333 ° -121.334592 °	37.814333 ° -121.334592 °	5 Y
9	0.79	0.79	Interior Drainage & Piping Systems	Erosion Areas	WS	U	Inspector Comments: Caving around siphon on waterside shoulder.No material 3' below pipe.	37.815102 ° -121.333898 °	37.815102 ° -121.333898 °	8 Y
10	1.02	1.02	Earthen Levee	Encroachments	WS	M	Garbage	37.818100 ° -121.332750 °	37.818100 ° -121.332750 °	6
11	1.14	1.14	Earthen Levee	Encroachments	LS	M	Prunings	37.819530 ° -121.333827 °	37.819530 ° -121.333827 °	20
12	1.15	1.21	Earthen Levee	Encroachments	LS	PO	Fences	37.819560 ° -121.333893 °	37.820083 ° -121.334812 °	25
13	1.23	1.23	Earthen Levee	Encroachments	LS	M	Prunings	37.820235 ° -121.335127 °	37.820235 ° -121.335127 °	7
14	1.32	1.36	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	37.820777 ° -121.336593 °	37.821097 ° -121.337185 °	9
15	1.36	1.50	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.821095 ° -121.337185 °	37.822285 ° -121.339252 °	38
16	1.40	1.40	Earthen Levee	Encroachments	LS	M	Pipe Inspector Comments: Pipe should be removed or properly abandoned.	37.821463 ° -121.337900 °	37.821463 ° -121.337900 °	21 Y
17	1.41	1.41	Earthen Levee	Vegetation	LS	U	Elderberries are blocking visibility and flood fight capability.	37.821423 ° -121.337878 °	37.821423 ° -121.337878 °	10 Y
18	1.47	1.47	Earthen Levee	Animal Control	WS	M	Exterminate rodents and backfill and compact or grout burrows.	37.821954 ° -121.338715 °	37.821954 ° -121.338715 °	28

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0544 Upper Roberts Island

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River							Right	4.22	09/29/2010 09/29/2010	Richard Willoughby
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
19	1.69	2.11	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	37.820863 ° -121.341285 °	37.819393 ° -121.344428 °	26
20	2.04	2.04	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.818733 ° -121.343340 °	37.818733 ° -121.343340 °	44
21	2.05	2.20	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.818842 ° -121.343520 °	37.820193 ° -121.345525 °	39
22	2.11	2.12	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	37.819337 ° -121.344275 °	37.819460 ° -121.344492 °	13
23	2.15	2.15	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	37.819698 ° -121.344877 °	37.819698 ° -121.344877 °	14
24	2.21	2.21	Earthen Levee	Encroachments	WS	C	Prunings	37.820320 ° -121.345668 °	37.820320 ° -121.345668 °	22
25	2.24	2.24	Earthen Levee	Encroachments	WS	C	Prunings	37.820660 ° -121.345997 °	37.820660 ° -121.345997 °	31
26	2.25	2.25	Earthen Levee	Animal Control	WS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.820697 ° -121.346050 °	37.820697 ° -121.346050 °	32
27	2.28	2.38	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.821096 ° -121.346418 °	37.821945 ° -121.347897 °	33
28	2.29	2.29	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.821240 ° -121.346553 °	37.821240 ° -121.346553 °	40
29	2.32	2.35	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	37.821548 ° -121.346872 °	37.821860 ° -121.347340 °	24
30	2.36	3.29	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.821840 ° -121.347428 °	37.819198 ° -121.359940 °	41
31	2.48	3.29	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	37.821037 ° -121.349050 °	37.819200 ° -121.359943 °	42
32	2.65	2.65	Earthen Levee	Encroachments	CR	M	Pipe Inspector Comments: Abandoned pipe at landside and waterside shoulder is open on both ends.	37.818867 ° -121.350393 °	37.818867 ° -121.350393 °	15 Y
33	2.74	2.74	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	37.817860 ° -121.351428 °	37.817860 ° -121.351428 °	16
34	2.76	3.10	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Keep the crown roadway free of vegetation.	37.817747 ° -121.351578 °	37.817497 ° -121.357490 °	43
35	2.84	2.84	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	37.817170 ° -121.352960 °	37.817170 ° -121.352960 °	17
36	3.28	3.28	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees over roadway to at least 12 feet above ground level.	37.819050 ° -121.359718 °	37.819050 ° -121.359718 °	27

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0544 Upper Roberts Island

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River							Right	4.22	09/29/2010 09/29/2010	Richard Willoughby
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
37	3.29	3.29	Earthen Levee	Encroachments	WS	C	Garbage	37.819188 ° -121.359932 °	37.819188 ° -121.359932 °	18
38	3.53	3.56	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Cactus on landside slope.	37.819576 ° -121.364056 °	37.819530 ° -121.364653 °	36 Y
39	3.54	3.54	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	37.819600 ° -121.364215 °	37.819600 ° -121.364215 °	19
40	3.59	3.59	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	37.819568 ° -121.364912 °	37.819568 ° -121.364912 °	29
41	3.61	4.22	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	37.819443 ° -121.365305 °	37.822442 ° -121.374608 °	47
42	3.63	3.63	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	37.819478 ° -121.365722 °	37.819478 ° -121.365722 °	30
43	3.64	4.22	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.819408 ° -121.366005 °	37.822442 ° -121.374607 °	48
44	3.68	3.70	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	37.819507 ° -121.366532 °	37.819567 ° -121.366835 °	34
45	3.74	3.77	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	37.819958 ° -121.367518 °	37.820267 ° -121.367812 °	45
46	3.85	3.85	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	37.821097 ° -121.368647 °	37.821097 ° -121.368647 °	46
47	3.87	3.87	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	37.821318 ° -121.368950 °	37.821318 ° -121.368950 °	35
48	4.18	4.18	Earthen Levee	Encroachments	WS	M	Prunings	37.822003 ° -121.374235 °	37.822003 ° -121.374235 °	37

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	09/29/2010 09/29/2010	Richard Willoughby

Levee Mile Report Line	3
Start Levee Mile	0.41
End Levee Mile	0.41
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking northwest at elderberries on landside slope and toe.

richard_f_20100921_150.jpg



Levee Mile Report Line	8
Start Levee Mile	0.74
End Levee Mile	0.74
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking south at elderberries on landside slope and toe.

richard_f_20100921_151.jpg



Levee Mile Report Line	9
Start Levee Mile	0.79
End Levee Mile	0.79
Location	Water Side
Category	Interior Drainage & Piping Systems
Item	Erosion Areas

Looking at top of siphon on waterside shoulder with 3' of caving around pipe.

richard_f_20101123_160.jpg



*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	09/29/2010 09/29/2010	Richard Willoughby

Levee Mile Report Line	9
Start Levee Mile	0.79
End Levee Mile	0.79
Location	Water Side
Category	Interior Drainage & Piping Systems
Item	Erosion Areas
Looking at caving around 10" siphon pipe on waterside shoulder.	
richard_f_20101123_161.jpg	



Levee Mile Report Line	16
Start Levee Mile	1.40
End Levee Mile	1.40
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking east at pipe on landside slope.	
richard_f_20100921_155.jpg	



Levee Mile Report Line	16
Start Levee Mile	1.40
End Levee Mile	1.40
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking east at pipe and erosion just above pipe on landside slope and shoulder.	
richard_f_20100921_156.jpg	



* Location		** Rating	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	09/29/2010 09/29/2010	Richard Willoughby

Levee Mile Report Line	16
Start Levee Mile	1.40
End Levee Mile	1.40
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking west at east end of pipe on waterside slope.

richard_f_20100921_157.jpg



Levee Mile Report Line	17
Start Levee Mile	1.41
End Levee Mile	1.41
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking south at elderberries on landside slope and toe.

richard_f_20100921_152.jpg



Levee Mile Report Line	32
Start Levee Mile	2.65
End Levee Mile	2.65
Location	Crown
Category	Earthen Levee
Item	Encroachments

Abandoned pipe at LM 2.65 landside view

richard_f_20100921_153.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	09/29/2010 09/29/2010	Richard Willoughby

Levee Mile Report Line	38
Start Levee Mile	3.53
End Levee Mile	3.56
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking southwest at overgrown cactus on landside slope.

richard_f_20100921_159.jpg



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